#RGB Color Code Reference

Color code formats: HEX, RGB, HSL, RGBA, HSLA conversions, CSS color keywords, and web-safe palette reference.

Color Format Comparison

Format	Syntax	Example (red)	Notes
HEX	#RRGGBB	#FF0000	6 hex digits, 0-F each
HEX short	#RGB	#F00	3 digit = repeat each
HEX alpha	#RRGGBBAA	#FF0000FF	AA = opacity (FF=100%)
RGB	rgb(r,g,b)	rgb(255,0,0)	0-255 per channel
RGBA	rgba(r,g,b,a)	rgba(255,0,0,1)	a: 0=transparent, 1=opaque
HSL	hsl(h,s%,l%)	hsl(0,100%,50%)	Hue 0-360, S/L 0-100%
HSLA	hsla(h,s%,l%,a)	hsla(0,100%,50%,1)	With alpha channel
Named	colorname	red	148 CSS named colors

HEX to RGB Conversion

```
#FF6B35 → RGB
R = FF = 15*16 + 15 = 255
G = 6B = 6*16 + 11 = 107
B = 35 = 3*16 + 5  = 53
→ rgb(255, 107, 53)

# JavaScript
const hex = '#FF6B35';
const r = parseInt(hex.slice(1,3), 16);  // 255
const g = parseInt(hex.slice(3,5), 16);  // 107
const b = parseInt(hex.slice(5,7), 16);  // 53
```

Common CSS Named Colors

Color	HEX	Color	HEX
white	#FFFFFF	black	#000000
red	#FF0000	green	#008000
blue	#0000FF	yellow	#FFFF00
gray	#808080	silver	#C0C0C0
orange	#FFA500	purple	#800080
pink	#FFC0CB	brown	#A52A2A
cyan	#00FFFF	magenta	#FF00FF
navy	#000080	teal	#008080
lime	#00FF00	maroon	#800000

HSL Hue Reference

Hue°	Color
0° / 360°	Red
30°	Orange
60°	Yellow

Hue°	Color
120°	Green
180°	Cyan
240°	Blue
270°	Violet
300°	Magenta

Opacity Values

Alpha value	HEX alpha	Percent
1.0	FF	100% (opaque)
0.9	E6	90%
0.75	BF	75%
0.5	80	50%
0.25	40	25%
0.1	1A	10%
0.0	00	0% (transparent)